

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 14

1. CONTRACTOR: James Construction Group
2. Change Order Work Limits: Sta. 481+00 to Sta. 492+00
3. Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)
4. Reasons: 2 C (3 Max. - In order of importance - Primary first)

Project:	<u>22IFB139</u>
Roadway:	<u>FM 3349</u>
CSJ Number:	<u>Williamson Co</u>

5 Describe the work being revised:

2C . New Development (Conditions Changing After PS&E Completed). This Change Order provides compensation to the Contractor for relocating box culvert No. 4 on the southbound frontage road, to accommodate the location of the new City of Hutto street (Spine Road). The culvert and crossover to FM 3349 were moved approximately 36 ft. to the north to align with the centerline of the Spine Road.

6. Work to be performed in accordance with Items: See Attached
7. New or revised plan sheet(s) are attached and numbered: 31, 35C, 164,165, 197, 213, 230, 241A, 354, 642
8. New Special Provisions/Specifications to the contract are attached: Yes No
9. New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

<p><small>The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.</small></p> <p>THE CONTRACTOR Date <u>4-3-2024</u></p> <p>By _____</p> <p>Typed/Printed Name <u>Joey Williams</u></p> <p>Typed/Printed Title <u>Division Manager</u></p>	<p style="text-align: center;">The following information must be provided</p> <p>Time Ext. #: _____ Days added on this CO: _____</p> <p>Amount added by this change order: <u>\$101,248.22</u></p>
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RECOMMENDED FOR EXECUTION:

 Project Manager Date 4/8/2024

N/A _____
 Design Engineer Date

 Program Manager Date 4/10/2024

Design Engineer's Seal:

County Commissioner Precinct 1 Date

APPROVED REQUEST APPROVAL

County Commissioner Precinct 2 Date

APPROVED REQUEST APPROVAL

Valerie Covey Apr 16, 2024

County Commissioner Precinct 3 Date

APPROVED REQUEST APPROVAL

County Commissioner Precinct 4 Date

APPROVED REQUEST APPROVAL

County Judge Date

APPROVED

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 14

Project # 22IFB139

TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE		HOURLY RATE

TABLE B: Contract Items

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	
464 6018	RC PIPE (CL IV) (24 IN) - 008	LF	\$ 116.59	484.00	\$ 56,429.56	120.00	604.00	\$ 70,420.36	\$ 13,990.80
530 6004	DRIVEWAYS (CONC) 008	SY	\$ 123.29	3,177.00	\$ 391,692.33	397.50	3,574.50	\$ 440,700.11	\$ 49,007.78
618 6023	CONDT (PVC) (SCH 40) (2") - 008	LF	\$ 11.00	21,721.00	\$ 238,931.00	(30.00)	21,691.00	\$ 238,601.00	\$ (330.00)
620 6007	ELEC CONDR (NO.8) BARE - 008	LF	\$ 1.75	16,664.00	\$ 29,162.00	(30.00)	16,634.00	\$ 29,109.50	\$ (52.50)
620 6008	ELEC CONDR (NO.8) INSULATED - 008	LF	\$ 2.25	33,328.00	\$ 74,988.00	(60.00)	33,268.00	\$ 74,853.00	\$ (135.00)
462 6012.1	REMOVE AND RE-LAY CONC BOX CULV (5FTX6FT) - 008	LF	\$ 376.38	0.00	\$ -	103.00	103.00	\$ 38,767.14	\$ 38,767.14
TOTALS					\$ 791,202.89			\$ 892,451.11	\$ 101,248.22

CHANGE ORDER REASON(S) CODE CHART

<p>1. Design Error or Omission</p>	<p>1A. Incorrect PS&E 1B. Other</p>
<p>2. Differing Site Conditions (unforeseeable)</p>	<p>2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other</p>
<p>3. County Convenience</p>	<p>3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other</p>
<p>4. Third Party Accommodation</p>	<p>4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other</p>
<p>5. Contractor Convenience</p>	<p>5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop 5D. Additional safety work/measures desired by the contractor 5E. Other</p>
<p>6. Untimely ROW/Utilities</p>	<p>6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other</p>

Williamson County Road Bond Program

**FM3349 at US 79
Williamson County Project No. 22IFB139**

Change Order No. 14

Reason for Change

This Change Order provides compensation to the Contractor for relocating Box Culvert No. 4 on the southbound frontage road, to accommodate the location of the new City of Hutto street (Spine Road). The culvert and the crossover to FM3349 were moved approximately 36 feet to the north to align with the centerline of the Spine Road.

Following is summary of new items required for this Change Order.

ITEM	DESCRIPTION	QTY	UNIT
462 6012.1	REMOVE AND RE-LAY CONC BOX CULV (5FTX6FT)	103	LF

This Change Order results in a net increase of \$101,248.22 to the Contract amount, for an adjusted Contract total of \$84,003,793.32. The original Contract amount was \$81,941,038.13. As a result of this and all Change Orders to-date, \$2,062,755.19 has been added to the Contract, resulting in an 2.52% net increase in the Contract cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.




HNTB Corporation

Oscar Salazar-Bueno, P.E.




SUMMARY OF ILLUMINATION QUANTITIES														
PLAN SHEET NO.	STATION TO STATION	0416 6029	0432 6001	0610 6106	0610 6208	0610 6216	0618 6023	0618 6064	0620 6005	0620 6006	0620 6007	0620 6008	0624 6002	0628 6049
		DRILL SHAFT (ROWY ILL POLE) (30 IN)	RIPRAP (CONC) (4 IN)	(N RO IL (U/P) (TY 21 (150W ED) LED	(N RO IL (TY SA) 405-10 (250W ED) LED	(N RO IL (TY SA) 401-10 (250W ED) LED	CONDT (MVC) (SCH 40) (2")	CONDT (RM) (1 1/2")	ELEC CONDR (NO. 10) BARE	ELEC CONDR (NO. 10) INSULATED	ELEC CONDR (NO. 8) BARE	ELEC CONDR (NO. 8) INSULATED	GROUND BOX TY A (122311)W/APRON	ELC SRY TY A 240/480 060 (NS) SS (T) SP (D)
		LF	CY	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	EA
ILLUMINATION SHEETS														
690	BEGIN TO 426+00	32	1.60			4	844				874	1748	1	
699	426+00 TO 437+00	24	1.61			3	1281				1316	2632	2	
700	437+00 TO 448+00	32	1.96			4	1544				1578	3156	2	1
701	481+00 TO 492+00	16	1.26			2	1045				1065	2130	2	1
702	492+00 TO 503+00	46	2.46			6	1768				1815	3630	3	1
703	503+00 TO 514+00	0	0.91		7	1	5668		2277	4554	3526	7052	2	
704	514+00 TO 525+00				7		3007		1316	2632	1841	3682		
705	525+00 TO 536+00	0	0.91		8	1	4180		2119	4238	2191	4382	2	1
706	536+00 TO 547+00	64	3.64			8	2570				2445	4890	4	1
707	547+00 TO 558+00	32	2.24			4	1339				1379	2758	3	
708	558+00 TO END	24	1.05			3	461				478	952		
709	UNDERPASS			0	4			518	578	1156				
710	UNDERPASS			0	1			475	535	1070				
ILLUMINATION TOTALS		288	17.92	16	27	36	23506	993	6825	13660	18504	37008	21	4

PLOT TABLE: 0226455.IN
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 DATE: 3/14/2024
 TIME: 5:11:56 PM
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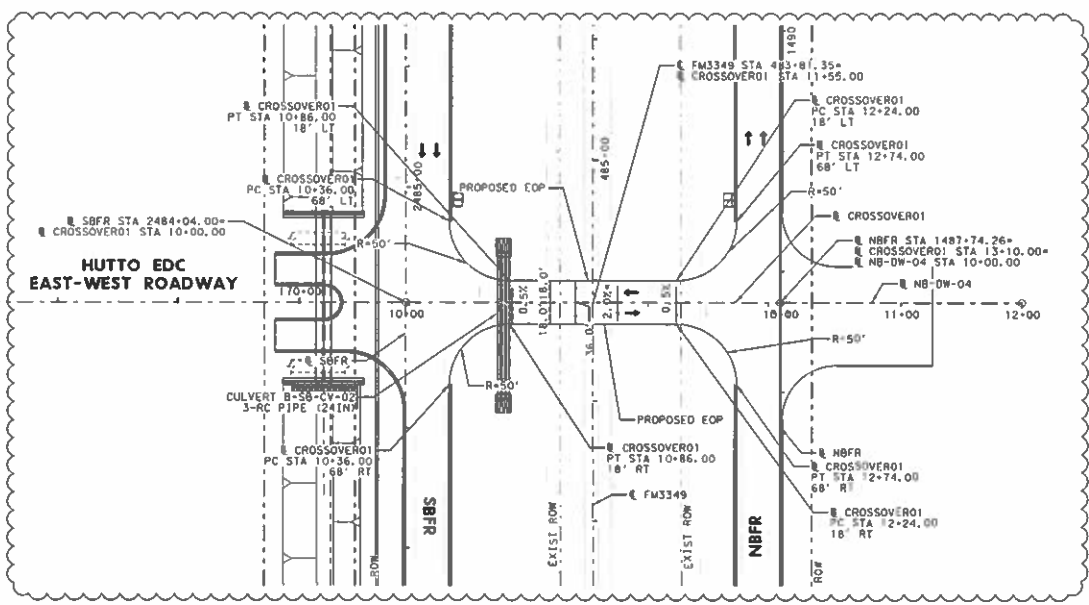
DESIGNER	CD 92	IN	
DRAWN	CD 94	IN	
CHECKED	REVISED	APPROVED	
  HDR Engineering, Inc. 710 Hensley Dr., Suite 150 Round Rock, Texas 78681 Texas Registered Engineering Firm F-754			
 Texas Department of Transportation			
FM 3349 SUMMARY OF QUANTITIES			
SHEET 13 OF 17			
DESIGN GRM	FED. AID DIST. NO.	FEDERAL AID PROJECT NO.	INTEREST NO.
GRAPHICS	6		FM 3349
CHECK PKD	STATE	DISTRICT	COUNTY
CHECK PKD	TEXAS	AUS	WILLIAMSON
CHECK PKD	CONTROL	SECTION	JOB
	3486	01	008, ETC
			31

ITEM	DESCRIPTION	QTY	UNIT
462 ****	REMOVE AND RE-LAY CONC BOX CULV (6FTX5FT)	103.00	LF
464 6018	RC PIPE (CL TV) (24 IN)	120	LF
467 5200	RC PIPE (CL TV) (24 IN)	330	EA
530 6005	DRIVEWAYS (ACP)	397.50	SY
618 6023	CONDT IPVCL (SCH 40) (2")	(30.00)	LF
620 6001	ELEC CONDR (NO. 8) BARE	(30.00)	LF
620 6008	ELEC CONDR (NO. 8) INSULATED	(30.00)	LF

NO.		DATE		REVISION		APPROVED
				HDR Engineering, Inc. 710 Hester Dr., Suite 150 Round Rock, Texas 78681 Texas Registered Engineering Firm P-754		
						
FM 3349 SUMMARY OF QUANTITIES CHANGE ORDER #5						
SHEET 1 OF 1						
DESIGN	FTD. NO.	FEDERAL AID PROJECT NO.			INTEREST	
FT	DIV. NO.				NO.	
QUANTITIES	6				FM 3349	
LG	STATE	DISTRICT	COUNTY		SHEET	
DATE	TEXAS	AUS	WILLIAMSON		NO.	
DATE	CONTROL	SECTION	JOB			
	3486	01	008, ETC			35C

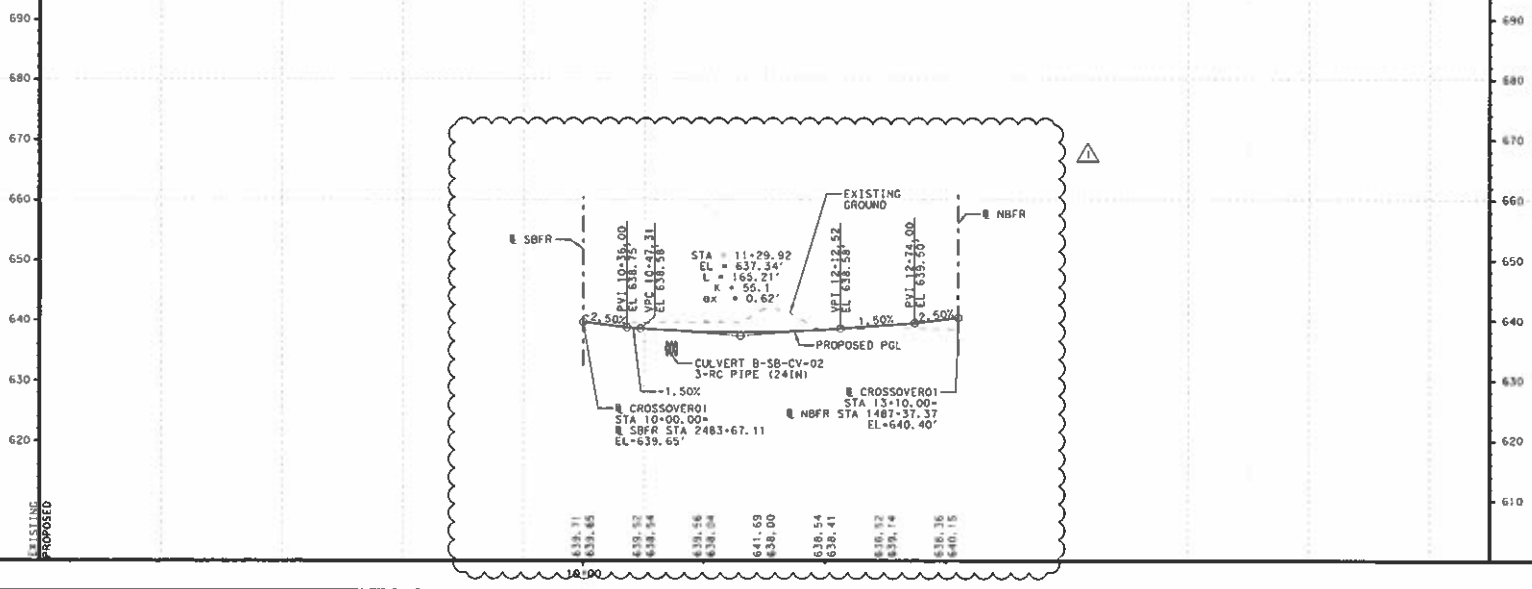
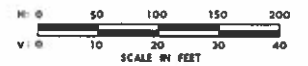
SHEET 35C

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 DATE: 3/22/2024 TIME: 12:04:09 PM SCALE: 1:100



- LEGEND**
- PROPERTY LINE (WILLIAMSON CENTRAL APPRAISAL DISTRICT)
 - EXISTING ROW
 - ROW
 - LEVEL-UP AND OVERLAY
 - MILL AND OVERLAY
 - WIDENING
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED RETAINING WALL
 - SAWCUT
 - TRAVEL LANE

- NOTES:**
1. SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR CURVE DATA AND ADDITIONAL INFO.
 2. REFER TO DRAINAGE, BRIDGE AND RETAINING WALL SHEETS FOR APPLICABLE DETAILS.
 3. DIMENSIONS ARE TO THE LIP OF GUTTER UNLESS NOTED OTHERWISE.
 4. PROVIDE 10' LENGTH CURB HEIGHT TRANSITION AT THE BEGINNING AND END OF THE TYPE 1 CURB AND GUTTER. REFER TO STANDARD DETAILS.
 5. CONTRACTOR TO VERIFY GATE LOCATION PRIOR TO PLACEMENT
 - * PROVIDE 50' CROSS SLOPE TRANSITIONS FROM 2.0% TO 0.5%



DATE	DATE	DATE
REV	DESCRIPTION	APPROVAL

WILLIAMSON COUNTY **HDR Engineering, Inc.**
 710 Huston Crossing, Suite 150
 Round Rock, Texas 78681
 Texas Registered Engineering Firm F-754

Texas Department of Transportation

FM 3349

**PLAN AND PROFILE
 CROSSOVER 01
 BEGIN TO END**

SCALE: 1"=100' SHEET 1 OF 1

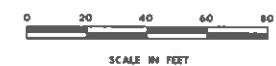
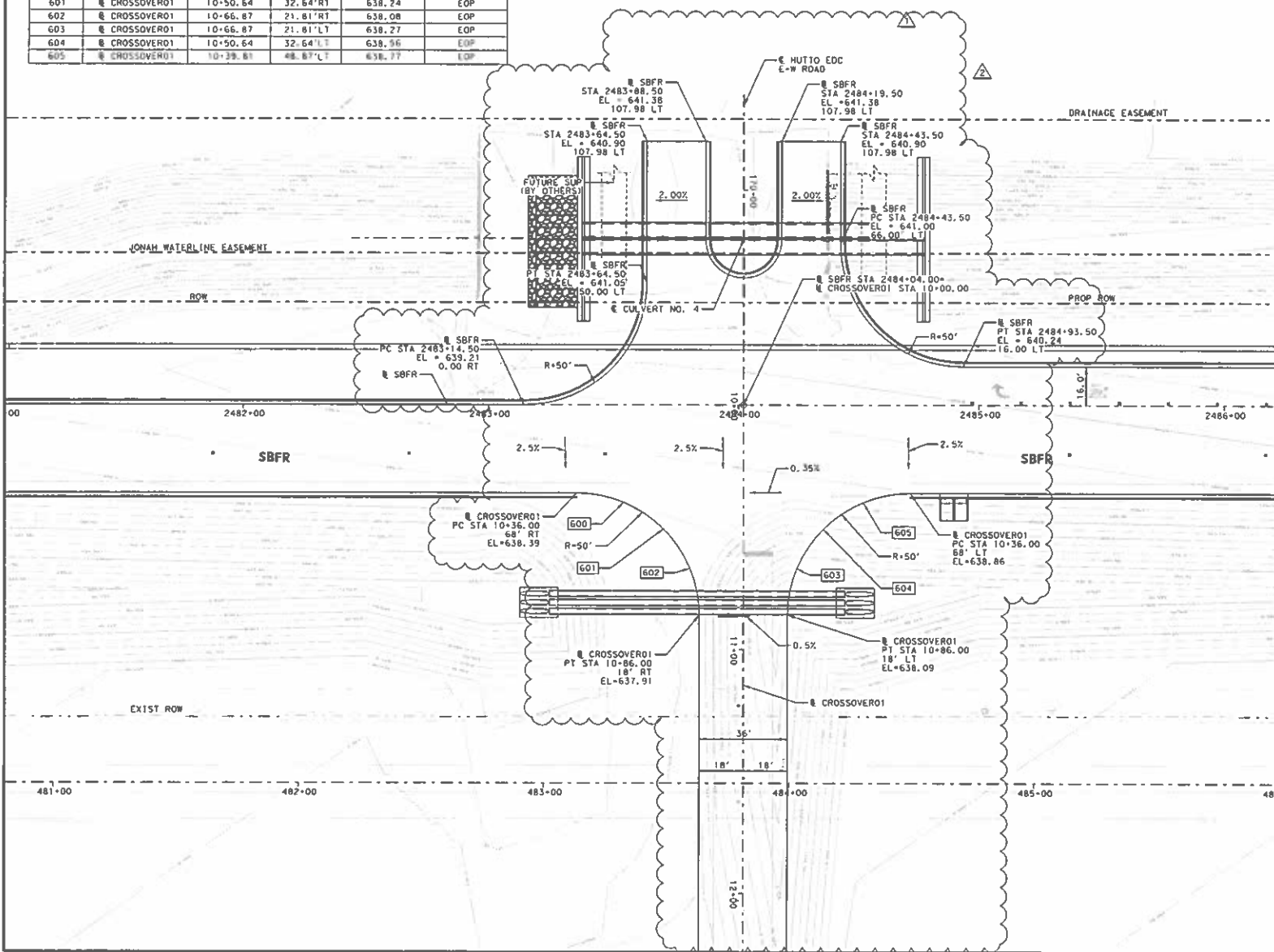
REGION	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	ROUTE NO.
KS	6		FM 3349
COUNTIES	STATE	DISTRICT	COUNTY
SL	TEXAS	AUS	WILLIAMSON
SHEET NO.	CONTROL	SECTION	JOB NO.
213	3486	01	008, ETC

TABLE OF POINTS - SBFR AT CROSSOVER01					
POINT	BASELINE	STATION	OFFSET	ELEVATION	DESCRIPTION
600	CROSSOVER01	10+39.81	48.87' RT	638.38	EOP
601	CROSSOVER01	10+50.64	32.64' RT	638.24	EOP
602	CROSSOVER01	10+66.87	21.81' RT	638.08	EOP
603	CROSSOVER01	10+66.87	21.81' LT	638.27	EOP
604	CROSSOVER01	10+50.64	32.64' LT	638.56	EOP
605	CROSSOVER01	10+39.81	48.87' LT	638.77	EOP

LEGEND

	PROPERTY LINE (WILLIAMSON CENTRAL APPRAISAL DISTRICT)
	EXISTING ROW
	ROW
	LEVEL-UP AND OVERLAY
	MILL AND OVERLAY
	PROPOSED EDGE OF PAVEMENT
	PROPOSED RETAINING WALL
	SAWCUT

- NOTES:**
- SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR CURVE DATA AND ADDITIONAL INFO.
 - REFER TO DRAINAGE, BRIDGE AND RETAINING WALL SHEETS FOR APPLICABLE DETAILS.
 - DIMENSION ARE TO THE LIP OF CUTTER UNLESS NOTED OTHERWISE.



1	2/21/23	CO #2	PAJ
2	3/14/24	CO #8	PAJ
REV.	DATE	REVISION	APPROVED



FM 3349

**INTERSECTION DETAIL
SBFR AT CROSSOVER01
AND
HUTTO EDC E-W ROAD**

SCALE: 1"=40' SHEET 1 OF 1

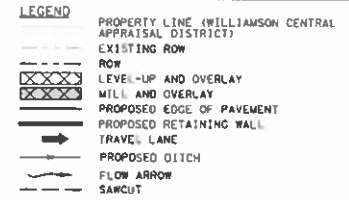
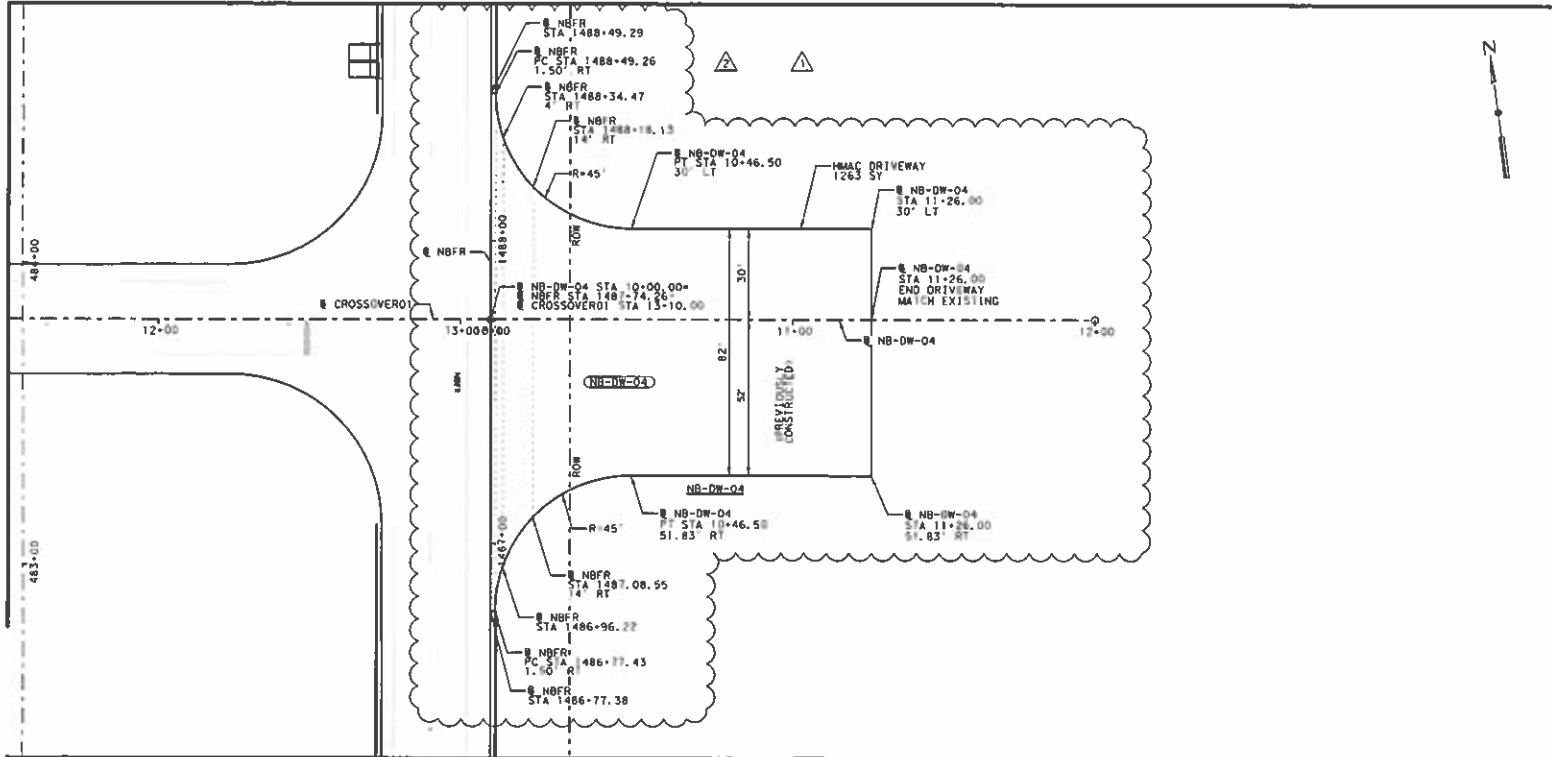
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CHECK	STATE	DISTRICT	COUNTY
	TEXAS	AUS	WILLIAMSON
CHECK	CONTROL SECTION	AND	SHEET NO.
	3486	01	008, ETC

230

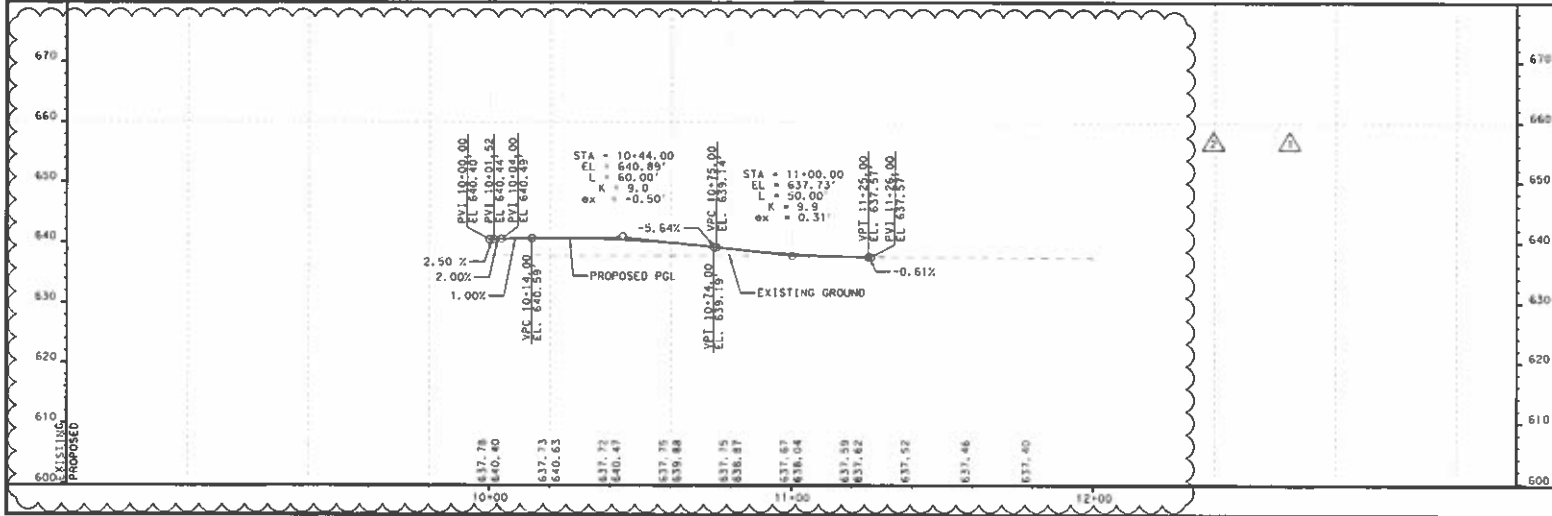
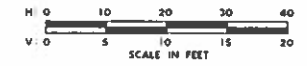
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 USER: BRYONRES
 FILE: NB DW Sheet 03

PENITABLE: 0225455.DW
 DATE: 3/22/2024 TIME: 05:02:55 AM
 SCALE: 1"=40'



- NOTES:**
- SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR CURVE DATA AND ADDITIONAL INFO.
 - REFER TO DRAINAGE, BRIDGE AND RETAINING WALL SHEETS FOR APPLICABLE DETAILS.
 - DIMENSION ARE TO THE LIP OF GUTTER UNLESS NOTED OTHERWISE.
 - SEE EROSION CONTROL SHEETS FOR RIPRAP LIMITS AND QUANTITIES.
 - REFER TO DRIVEWAYS AND MAILBOX TURNOUTS STANDARD DWMB-22 (AUS) (MOD) FOR FURTHER INFORMATION.



3/25/2024

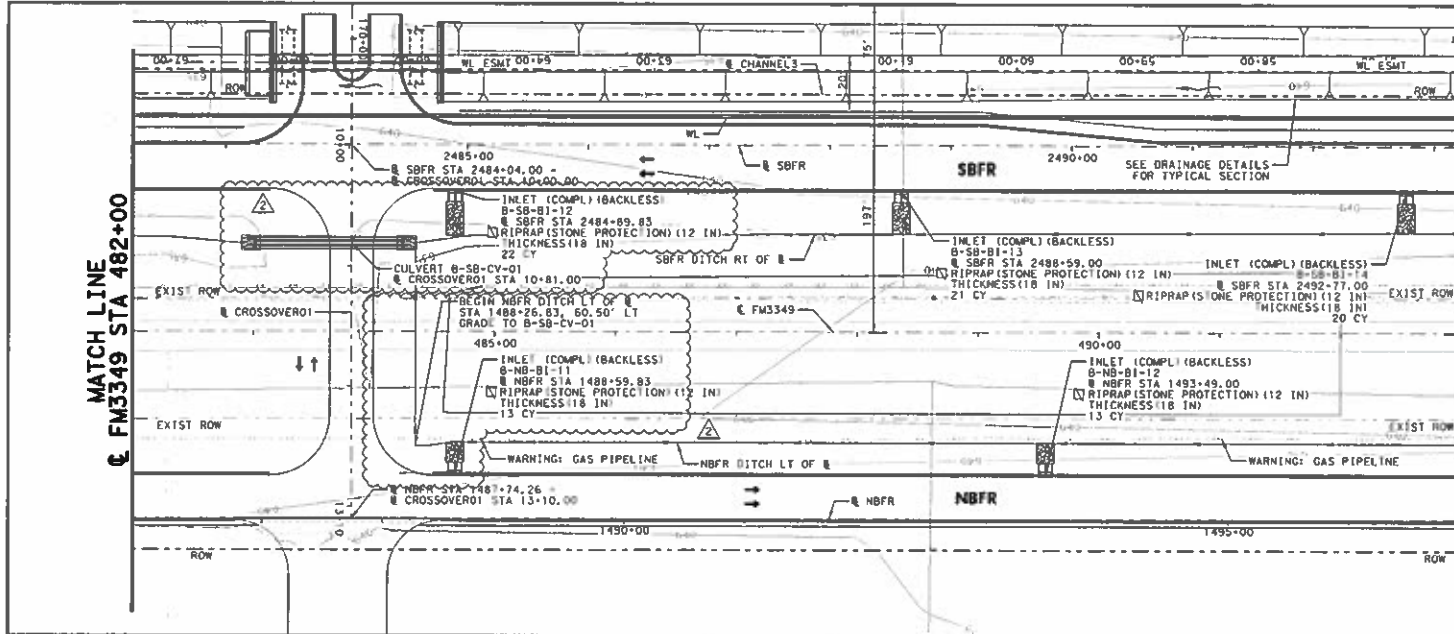
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1	12/31/23	CO + H2 SHEET	PAW
NO.	DATE	REVISION	APPROVAL



**FM 3349
 NB DRIVEWAY
 PLAN AND PROFILE
 NB-DW-04**

SCALE: 1"=20' SHEET 3 OF 6

COUNTY	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	PROJECT NO.
KS	6		FM 3349
GRAPHICS	STATE	DISTRICT	COUNTY
LD	TEXAS	AUS	WILLIAMSON
CHECK	SECTION	SECTION	SHEET NO.
	3486	01	008, ETC
			241A



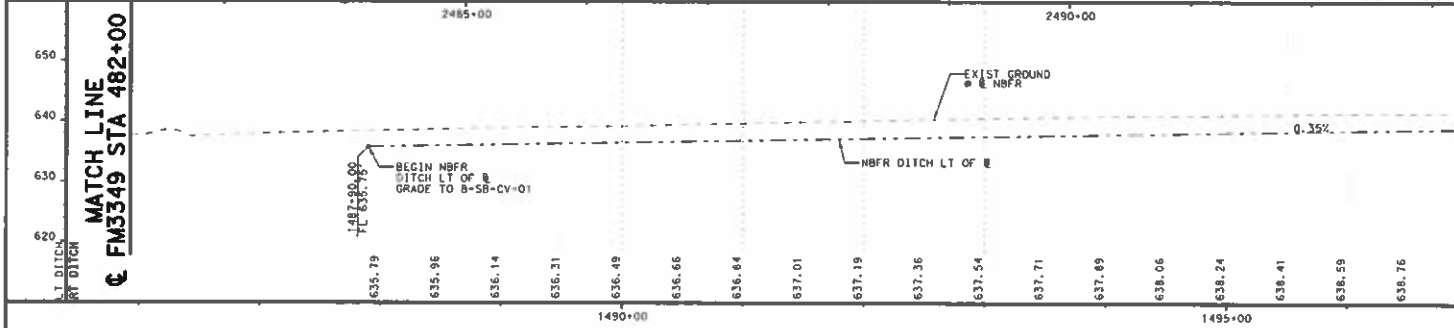
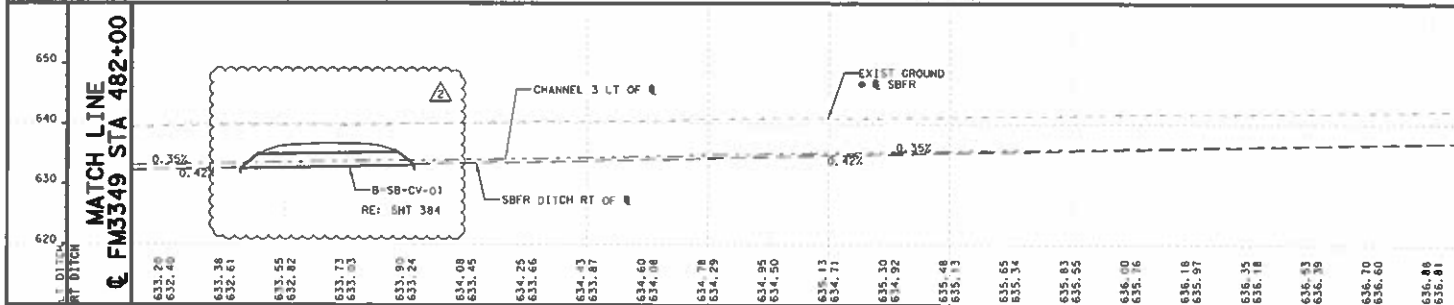
LEGEND

- PROPOSED CULVERT
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED DITCH
- PROPOSED CONCRETE RIPRAP
- PROPOSED STONE RIPRAP
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- PROPOSED DRAINAGE EASEMENT
- PROPERTY LINE (WILLIAMSON CENTRAL APPRAISAL DISTRICT)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED RETAINING WALL

NOTES:

- SEE INTERIOR DRAINAGE AREA MAP FOR NAME KEY.
- STATIONS AND OFFSETS FOR STRUCTURES ARE TO CENTER OF VAULT. ELEVATIONS OF STRUCTURES ARE IN FALL ELEVATIONS. FOR CURB INLETS, ELEVATION IS THE NORMAL GUTTER FLOW LINE, NOT INCLUDING THE 3" GUTTER DEPRESSION. FOR GRATE INLETS, ELEVATION IS TOE OF RAIL.
- SEE BRIDGE LAYOUT SHEETS FOR BRIDGE DECK INLET LOCATIONS.
- THE UTILITY INFORMATION SHOWN IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LIMITS AND LOCATIONS OF UTILITIES PRIOR TO CONSTRUCTION.
- WARNING: 16" GAS PIPELINE LOCATED IN PROPOSED CONSTRUCTION LIMITS. COORDINATION OF CONSTRUCTION ACTIVITY AROUND PIPELINE CONSIDERED SUBSIDIARY TO PERTINENT ITEMS.
- SEE EROSION CONTROL SHEETS FOR EROSION CONTROL BLANKET LIMITS & QUANTITIES.
- DENOTES TOEWALL IS NOT REQUIRED.

H 0 50 100 150 200
 V 0 10 20 30 40
 SCALE IN FEET



MATCH LINE
 FM3349 STA 482+00

MATCH LINE
 FM3349 STA 493+00

650
640
630
620

MATCH LINE
 FM3349 STA 482+00

MATCH LINE
 FM3349 STA 493+00

650
640
630
620

SCALE: 1"=100'

SHEET 7 OF 13

DESIGN	149.00	FEDERAL AID PROJECT NO.	WILLIAMSON
KS	017.00		NO.
GRAPHICS	6		FM 3349
SL	STATE	DISTRICT	COUNTY
CHK1	TEXAS	AUS	WILLIAMSON
CHK2	CONTR.	SECTION	JOB
KS	3486	01	00B, ETC

354



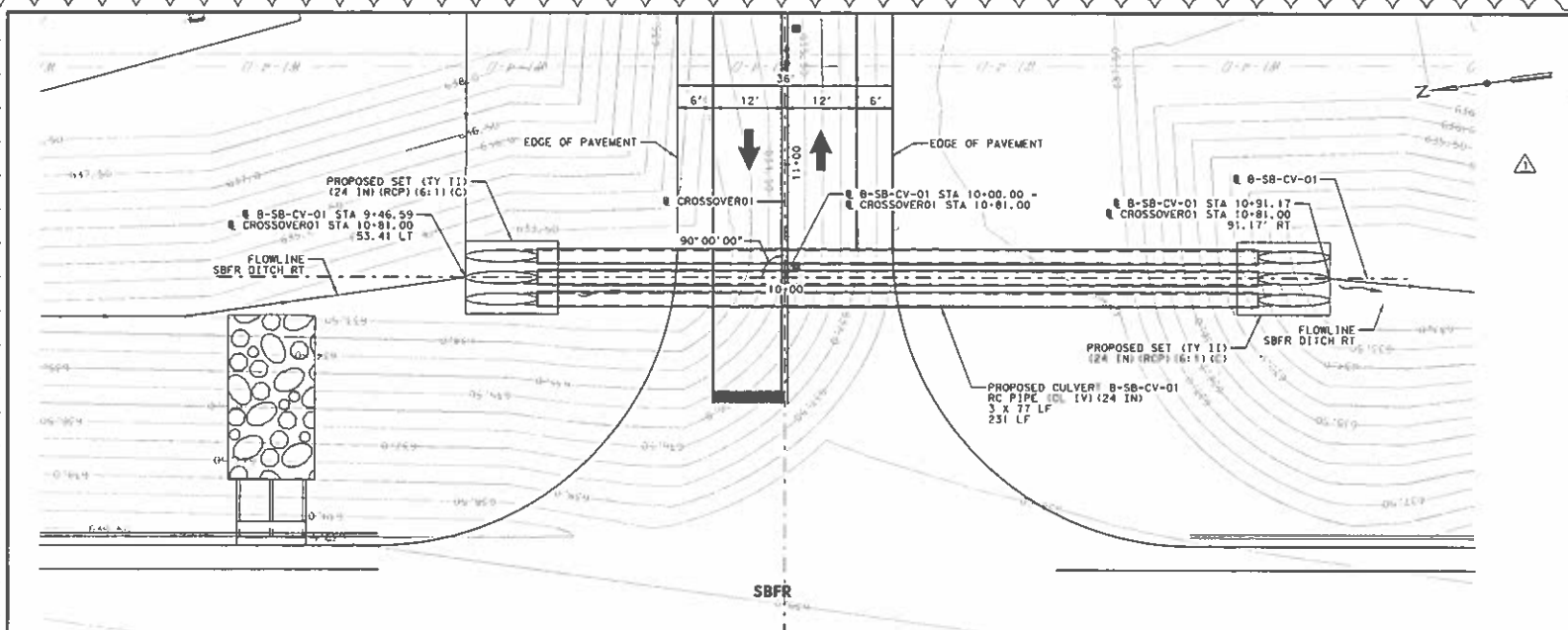
1	2/21/23	CO 02	PAF
2	3/14/24	CO 04	PAF
NO.	DATE	REVISION	APPROVED

WILLIAMSON COUNTY
HDR Engineering, Inc.
 710 Market Crossing, Suite 150
 Round Rock, Texas 78681
 Texas Registered Engineering Firm F-754

Texas Department of Transportation

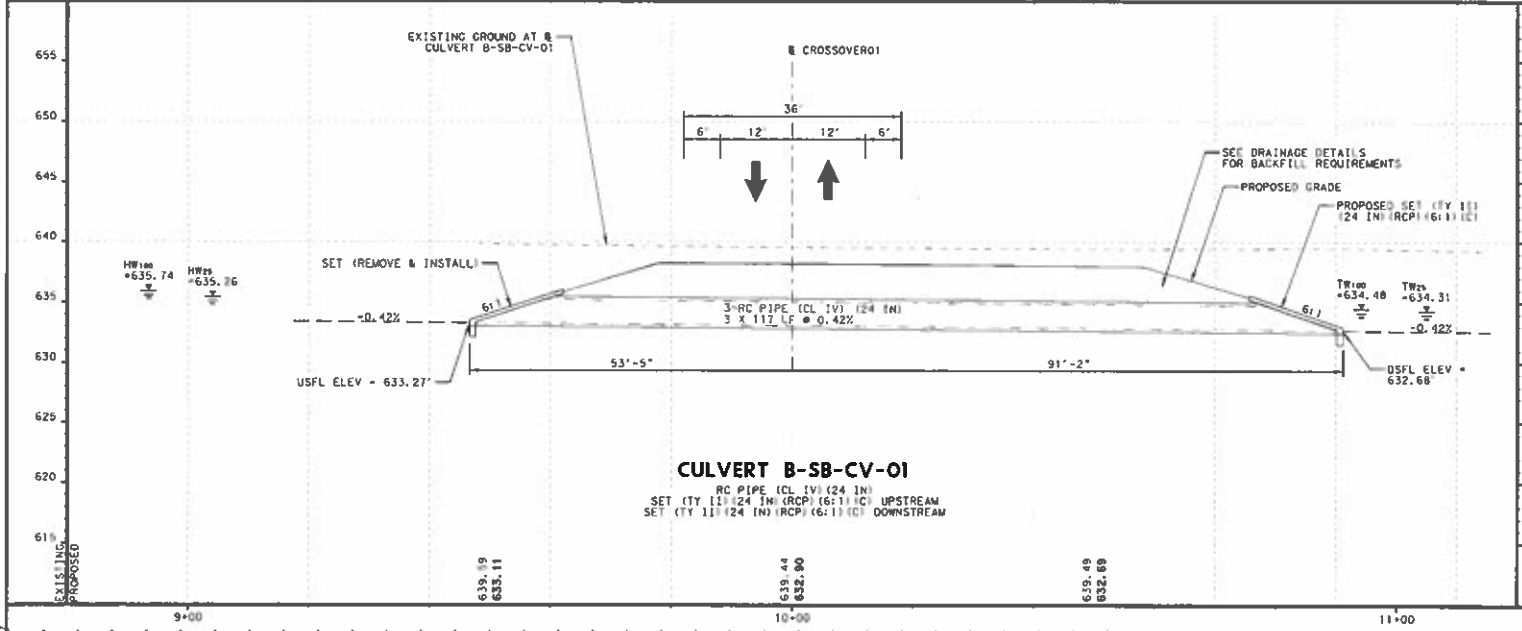
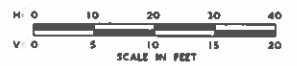
FM 3349
INTERIOR DRAINAGE
PLAN AND PROFILE
STA 482+00 TO STA 493+00

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 USER: BPTORRES
 DRAWING: CIVIL/24-0307-01



- LEGEND**
- PROPOSED CULVERT
 - PROPOSED DITCH
 - FLOW ARROW
 - ▨ PROPOSED CONCRETE RIPRAP
 - ▨ PROPOSED STONE RIPRAP
 - - - RIGHT OF WAY
 - - - DRAINAGE EASEMENT
 - - - PROPOSED EDGE OF PAVEMENT
- NOTES:**
- THE UTILITY INFORMATION SHOWN IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LIMITS AND LOCATIONS OF UTILITIES PRIOR TO CONSTRUCTION.
 - WARNING: 16" GAS PIPELINE LOCATED IN PROPOSED CONSTRUCTION LIMITS. COORDINATION OF CONSTRUCTION ACTIVITY AROUND PIPELINE CONSIDERED SUBSIDIARY TO PERTINENT ITEMS.
 - SEE DRAINAGE PLAN AND PROFILE SHEETS FOR STONE AND CONCRETE RIPRAP QUANTITIES. SEE EROSION CONTROL SHEETS FOR SOIL RETENTION BLANKET LIMITS AND QUANTITIES.
 - CULVERT PROFILES ARE CUT ALONG CULVERT ALIGNMENT AND DEPIC TRUE (SKEW) LENGTH, LENGTH NORMAL TO THE ROADWAY ALIGNMENT IS DIMENSIONED IN THE PLAN VIEW.

B-SB-CV-01 HYDRAULIC DATA	
DESIGN	= 25 YEAR
Q-25	= 37.7 CFS
Q-100	= 49.3 CFS
HW-25	= 635.26
HW-100	= 635.74
TW-25	= 634.31
TW-100	= 634.48
V-25	= 4.59 FT/S
V-100	= 5.52 FT/S



3/25/2024

NO.	DATE	REVISION	APPROVED

WILLIAMSON COUNTY

HDR Engineering, Inc.
710 Hesters Crossing, Suite 150
Round Rock, Texas 78681
Texas Registered Engineering Firm F-754

Texas Department of Transportation

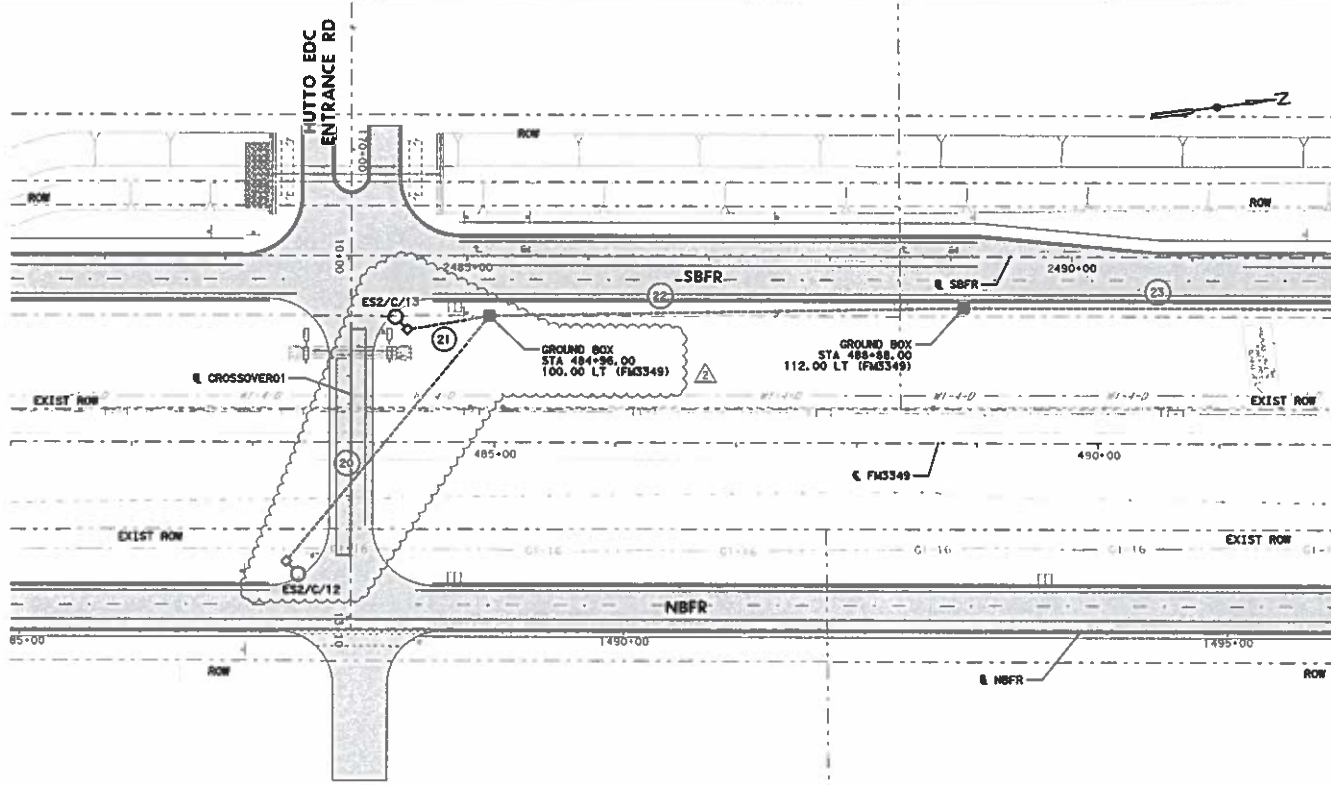
FM 3349

INTERIOR DRAINAGE
CULVERT LAYOUT
B-SB-CV-01

SCALE: 1"=20' SHEET 1 OF 1

SECTION	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	POSTMILE NO.
JC	6		FM 3349
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AUS	WILLIAMSON	384
CONTRACT	SHEET NO.	DATE	
3486	01	008, ETC	

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 DATE: 3/14/2024
 TIME: 5:44:46 PM
 SCALE: 1/80



MATCH LINE STA 492+00

- ### ILLUMINATION LEGEND
- FUTURE TxDOT STANDARD ILLUMINATION ASSEMBLY, 40' MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM, (1) LED LUMINAIRE (250W EQ), SHOE BASE TO BRIDGE BLISTER, TYPE III DISTRIBUTION
 - FUTURE TxDOT STANDARD ILLUMINATION ASSEMBLY, 40' MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM, (1) LED LUMINAIRE (250W EQ), SHOE BASE TO RETAINING WALL LIGHTING BRACKET, TYPE III DISTRIBUTION
 - TxDOT STANDARD ILLUMINATION ASSEMBLY, 40' MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM, (1) LED LUMINAIRE (250W EQ), TRANSFORMER BASE, TYPE III DISTRIBUTION
 - TxDOT STANDARD TYPE II UNDERPASS ILLUMINATION ASSEMBLY, (1) LED LUMINAIRE (150W EQ), TYPE III DISTRIBUTION
 - ELECTRICAL SERVICE ASSEMBLY, TYPE A, 240/480 VOLT, 1 PHASE, STEEL POLE
 - GROUND BOX WITH APRON (NEMA 3R)
 - GROUND BOX (NEMA 3R)
 - JUNCTION BOX (NEMA 3R)
 - DISCONNECT SWITCH (NEMA 3R)
 - CONDUCTORS IN CONDUIT RUN (RIGID METAL CONDUIT)
 - CONDUCTORS IN CONDUIT RUN (EMBEDDED IN BRIDGE STRUCTURE)
 - CONDUCTORS IN CONDUIT RUN (TRENCH)
 - CONDUCTORS IN CONDUIT RUN (BORED)
 - CONDUCTORS/CONDUIT SEGMENT NO.
 - ILLUMINATION ASSEMBLY DESIGNATION
 - SERVICE POINT CIRCUIT DESIGNATION
 - ELECTRICAL SERVICE DESIGNATION

SERVICE	CIRCUIT	SEGMENT NO.	SEGMENT LENGTH (LF)	CONDUIT (LF)			CONDUCTORS (LF)			NOTES			
				0618-6023			0620-6007				0620-6008		
				2" PVC SCH 40	#B BARE (GROUND)	#B XHW (POWER)	#B BARE (GROUND)	#B XHW (POWER)	#B BARE (GROUND)		#B XHW (POWER)		
ES2	C	20	264	1 X 264	264	1 X 269	269	2 X 269	538				
ES2	C	21	69	1 X 69	69	1 X 74	74	2 X 74	148				
ES2	C	22	400	1 X 400	400	1 X 405	405	2 X 405	810				
ES2	C	23	372	1 X 372	372	1 X 377	377	2 X 377	754				
SHEET TOTAL				1045	1045	1065	1065	2130	2130				

ROADWAY ILLUMINATION ASSEMBLY SUMMARY						
SERVICE	POLE NO.	CIRCUIT	STATION	OFFSET	ASSEMBLY TYPE	NOTES
ES2	12	C	483+28.00	99.00 RT (FM3349)	TYPE SA 40 T-10 (250W EQ) LED	
ES2	13	C	484+28.00	93.75 LT (FM3349)	TYPE SA 40 T-10 (250W EQ) LED	

SHEET SUMMARY OF ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
0416 6029	DRILL SHAFT (RIGID ILL POLE) (30 IN)	LF	16
0432 6001	RIPRAP (CONC) 14 IN	CY	1.26
0610 5216	1W RD LL (11' SA) 401-10 (250W EQ) LED	EA	2
0618 6023	CONDUIT (PVC) (SCH 40) (2")	LF	1045
0620 6007	ELEC CONDR (NO. 8) BARE	LF	1065
0620 6008	ELEC CONDR (NO. 8) INSULATED	LF	2130
0624 6002	GROUND BOX TY A (122311)W/APRON	EA	2

- ### GENERAL NOTES:
- ALL WORK SHALL BE COMPLETED ACCORDING TO THE MOST CURRENT TxDOT STANDARDS, UTILITY COMPANY STANDARDS, AND THE NATIONAL ELECTRIC CODE.
 - THE CONTRACTOR SHALL VERIFY WITH THE UTILITY COMPANIES THE EXACT LOCATION OF EXISTING/PROPOSED UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION TO AVOID CONFLICT OR DAMAGE TO THE UTILITIES. THE CONTRACTOR SHALL SEEK THE APPROVAL OF THE ENGINEER AND ADJUST THE OFFSETS TO AVOID DAMAGE TO THE EXISTING/PROPOSED UTILITIES.
 - REFER TO ILLUMINATION SUMMARIES, SCHEMATICS, AND TxDOT STANDARDS FOR ADDITIONAL INFORMATION.
 - PROPOSED ABOVE GROUND NEMA 3R JUNCTION BOXES SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO THE VARIOUS BID ITEMS.
 - PROVIDE CONDUIT EXPANSION AND DEFLECTION COUPLING PRIOR TO ENTERING BRIDGE MOUNTED JUNCTION BOX FOR TRANSITION FROM UNDERGROUND CONDUIT TO BRIDGE EMBEDDED CONDUIT. COUPLING SHALL ALLOW FOR A MAXIMUM OF 4" HORIZONTAL AND VERTICAL MOVEMENT.
 - REFER TO BRIDGE DRAWINGS FOR EXACT LOCATION OF BRIDGE MOUNTED ILLUMINATION ASSEMBLIES AND ASSOCIATED INSTALLATION DETAILS.

1 2/21/23	00-42	P&P	APPROVED
2 3/14/24	00-99	P&P	
NO. 0416	REVISED		

HDR Engineering, Inc.
 710 Hecker Crossing, Suite 150
 Round Rock, Texas 78681
 Texas Registered Engineering Firm F-754

FM 3349

ILLUMINATION PLAN

STA 481+00 TO STA 492+00

SCALE: 1"=100' SHEET 4 OF 11

DATE	FED. AID DIST. NO.	FEDERAL AID PROJECT NO.	ROUTE NO.
CRM	6		FM 3349
GRAPHICS	STATE	DISTRICT	COUNTY
CRM	TEXAS	AUS	WILLIAMSON
CHECK	PKD	CONTROL	SECTION
PKD	3486	01	008, ETC
			701

From: Kyle Oldham
To: Asif Mirzazada; Gary Couch; Joshua Hazlewood; Dalimar Rosario
Cc: 61272_FM3349AUS79; Oscar Salazar-Bueno; Steven Shull; David Thornhill; Trevor Dare; Brian Chaffe
Subject: RE: FM3349: COH Megasite Spine Road - Revised Driveway Plans
Date: Monday, March 11, 2024 4:15:29 PM
Attachments: image007.png
image008.png
image009.png
image010.png
image011.png
image012.png
image013.png

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Asif-

With HNTB's verbal direction earlier today, we will proceed with OPTION B stated below at 96' LF total relocated. PSC crews began this morning on the work. Please confirm.

12 ea 6' middle boxes= 72'
4 @a 6' end boxes= 16'
=96' x \$376.38 = \$36,132.48

Please proceed with Change Order so we can potentially get on this month's estimate.

Thanks!

-Kyle

From: Kyle Oldham
Sent: Tuesday, March 5, 2024 12:07 PM
To: Asif Mirzazada <amirzazada@hntb.com>; Gary Couch <gcouch@prim.com>; Joshua Hazlewood <jhzazlewood@prim.com>; Dalimar Rosario <drosario@prim.com>
Cc: 61272_FM3349AUS79 <61272_FM3349AUS79@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; Steven Shull <sshull@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Trevor Dare <tdare@HNTB.com>; Brian Chaffe <bchaffe@prim.com>
Subject: RE: FM3349: COH Megasite Spine Road - Revised Driveway Plans
Importance: High

Asif-

OPTION A

New 6x6 RCB install
\$760/LF (same as CO#7 price)
\$760x96' = \$72,960 total
6 week lead time on boxes

OPTION B

Relocate existing boxes (estimated 112 LF (96' straight boxes & 16' end pcs))
\$376.38/LF
\$376.38x112' = \$42,154.97 total
Crews can begin this upon completion of Culvert 3 (3-4 days)

Please advise.

Thanks.

Kyle Oldham
Project Manager
12365 US 79 S.
Taylor, TX 76574
O: (254) 939-8610
C: (254) 444-0974
www.prim.com

PSC_email_2016



"No business objective is so important that it will be pursued at the sacrifice of safety."

From: Asif Mirzazada <amirzazada@hntb.com>
Sent: Saturday, February 24, 2024 10:37 AM
To: Kyle Oldham <koldham@prim.com>; Gary Couch <gcouch@prim.com>
Cc: 61272_FM3349AUS79 <61272_FM3349AUS79@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; Steven Shull <sshull@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Trevor Dare <tdare@HNTB.com>
Subject: RE: FM3349: COH Megasite Spine Road - Revised Driveway Plans

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Kyle,

We've considered this option, but on-site evaluation determined that it's best not to disturb the south end since it's already grouted. Although this option seems quick and cost-effective, I'll check with the EOR to get his recommendation if you believe we should proceed in this direction. Excavating on the sides and remove the flowable fill so that the boxes can be pulled off and moved to the north end of the line would not be too challenging I believe.

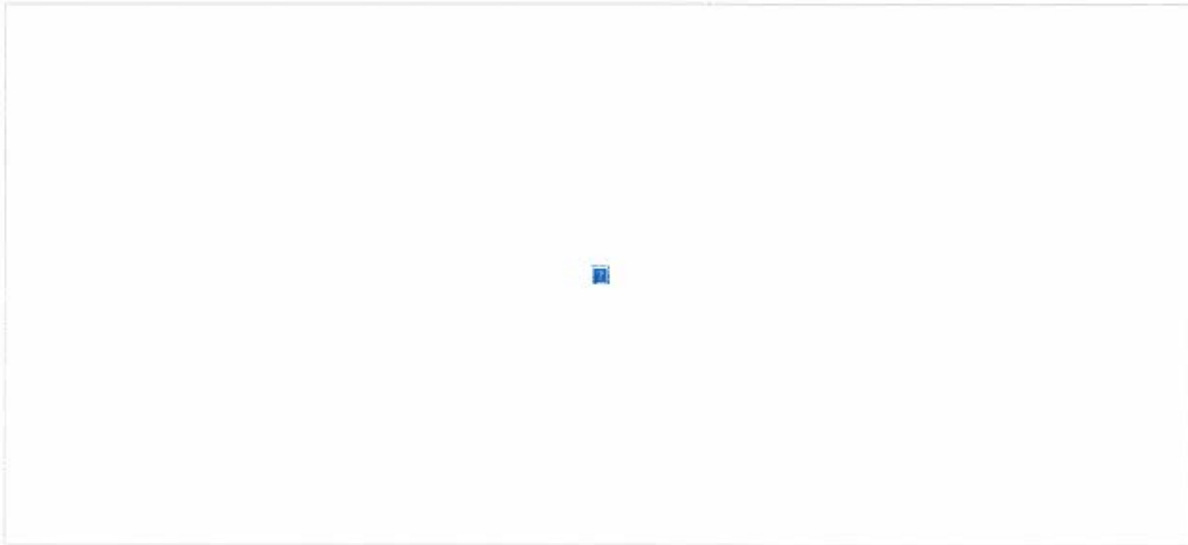
Thank you.

Asif Mirzazada
Sr. Field Engineer
Williamson County Road Bond Program
Mobile (512) 987-9179 Email amirzazada@hntb.com

From: Kyle Oldham <koldham@prim.com>
Sent: Friday, February 23, 2024 5:04 PM
To: Asif Mirzazada <amirzazada@hntb.com>, Gary Couch <gcouch@prim.com>
Cc: 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; Steven Shull <sshull@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Trevor Dare <tdare@HNTB.com>
Subject: RE: FM3349: COH Megasite Spine Road - Revised Driveway Plans

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Simple illustration....



From: Kyle Oldham
Sent: Friday, February 23, 2024 5:01 PM
To: Asif Mirzazada <amirzazada@hntb.com>; Gary Couch <gcouch@prim.com>
Cc: 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; Steven Shull <sshull@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Trevor Dare <tdare@HNTB.com>
Subject: RE: FM3349: COH Megasite Spine Road - Revised Driveway Plans

Asif-

Is HNBT opposed to the idea of removing the south end boxes by the needed 35' and relocating them to the north end? Reusing the end pieces on both sides. Essentially eliminating the need to purchase new boxes... perhaps.

I have not put any calls to paper on if it would work with the spacing yet, just thinking out loud to see if it is an option. I have spoke to Perry, the foreman installing it, and he said it can be done.

Something to think about and let me know your thoughts.

From: Asif Mirzazada <amirzazada@hntb.com>
Sent: Friday, February 23, 2024 2:17 PM
To: Kyle Oldham <koldham@prim.com>; Gary Couch <gcouch@prim.com>
Cc: 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; Steven Shull <sshull@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Trevor Dare <tdare@HNTB.com>
Subject: FM3349: COH Megasite Spine Road - Revised Driveway Plans

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Kyle,

Attached is the preliminary plans for the revised COH spine road driveway. We have estimated installing two runs of 48 feet, totaling 96 linear feet (12 segments of 8-

footers). The plans contain sufficient information for box ordering. Please review and let us know if you have any questions. I am expecting to get the final plans early next week.

Thank you,

Asif Mirazada
Sr. Field Engineer
Williamson County Road Bond Program
Mobile (512) 987-9179 Email amirazada@hntb.com

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